

TECH CENTER 1800/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,497A

DATE: 09/30/2003 TIME: 11:17:54

Input Set : A:\012889-086.ST25.txt

Output Set: N:\CRF4\09302003\I938497A.raw

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4 <110> APPLICANT: Wastfelt, Maria K. Boden
 5 Flock, Jan-Ingmar
 7 <120> TITLE OF INVENTION: Fibrinogen Binding Protein
 9 <130> FILE REFERENCE: 012889-086
11 <140> CURRENT APPLICATION NUMBER: US 09/938,497A
12 <141> CURRENT FILING DATE: 2001-08-27
14 <150> PRIOR APPLICATION NUMBER: US 09/276,141
15 <151> PRIOR FILING DATE: 1999-03-25
17 <150> PRIOR APPLICATION NUMBER: PCT/SE93/00759
18 <151> PRIOR FILING DATE: 1993-09-20
20 <150> PRIOR APPLICATION NUMBER: SE 9302955-01
21 <151> PRIOR FILING DATE: 1993-09-13
23 <150> PRIOR APPLICATION NUMBER: SE 9202720-0
24 <151> PRIOR FILING DATE: 1992-09-21
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28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 20
32 <212> TYPE: PRT
33 <213> ORGANISM: Staphylococcus aureus
35 <400> SEQUENCE: 1
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37 1
                  5 10
38 Lys Tyr Gly Thr
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 20
44 <212> TYPE: PRT
45 <213> ORGANISM: Staphylococcus aureus
47 <400> SEQUENCE: 2
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49 1
50 Lys Lys Gly Ala
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54 <210> SEQ ID NO: 3
55 <211> LENGTH: 20
56 <212> TYPE: PRT
57 <213> ORGANISM: Staphylococcus aureus
59 <400> SEQUENCE: 3
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61 1
62 Lys Asn Gly Thr
63
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RAW SEQUENCE LISTING DATE: 09/30/2003 PATENT APPLICATION: US/09/938,497A TIME: 11:17:54 Input Set: A:\012889-086.ST25.txt Output Set: N:\CRF4\09302003\I938497A.raw 66 <210> SEQ ID NO: 4 67 <211> LENGTH: 20 68 <212> TYPE: PRT 69 <213> ORGANISM: Staphylococcus aureus 71 <400> SEQUENCE: 4 72 Ile Val Thr Lys Asp Tyr Ser Gly Lys Ser Gln Val Asn Ala Gly Ser 73 1 5 10 15 74 Lys Asn Gly Thr 75 20 78 <210> SEQ ID NO: 5 79 <211> LENGTH: 20 80 <212> TYPE: PRT 81 <213> ORGANISM: Staphylococcus aureus 83 <400> SEQUENCE: 5 84 Ser Glu Gly Tyr Gly Pro Arg Glu Lys Lys Pro Val Ser Ile Asn His 85 1 5 10 15

128 Asn Ile Val Glu Tyr Asn Asp Gly Thr Phe Lys Tyr Gln Ser Arg Pro

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129
                     20
     130 Lys Phe Asn Ser Thr Pro Lys Tyr Ile Lys Phe Lys His Asp Tyr Asn
                 35
                                     40
     132 Ile Leu Glu Phe Asn Asp Gly Thr Phe Glu Tyr Gly Ala Arg Pro Gln
                                 55
     134 Phe Asn Lys Pro Ala Ala Lys Thr Asp Ala Thr Ile Lys Lys Glu Gln \cdot
                             70
                                                  75
     136 Lys Leu Ile Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His
                         85
     138 Thr Val Ser Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser
     140 Phe Glu Tyr Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn
                                     120
                 115
     142 Val Leu Lys Gln Gly Leu Val Arg
            130
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     147 <211> LENGTH: 1009
     148 <212> TYPE: DNA
     149 <213> ORGANISM: Artificial Sequence
     151 <220> FEATURE:
     152 <223> OTHER INFORMATION: fib protein
W--> 154 <221> NAME/KEY: CDS
     155 <222> LOCATION: (157)...(654)
W--> 157 <221> CDS
     158 <222> LOCATION: (804)...(1007)
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     162 aagtgtttat agttaattaa taattagtta atttcaaaag ttgtataaat aggataactt 120
     163 aataaatgta agataataat ttggaggata attaac atg aaa aat aaa ttg ata
     164
                                                 Met Lys Asn Lys Leu Ile
     165
     167 gca aaa tet tta tta aca ata gcg gca att ggt att act aca act aca
                                                                            222
     168 Ala Lys Ser Leu Leu Thr Ile Ala Ala Ile Gly Ile Thr Thr Thr Thr
                                          15
     171 att gcg tca aca gca gat gcg agc gaa gga tac ggt cca aga gaa aag
                                                                            270
     172 Ile Ala Ser Thr Ala Asp Ala Ser Glu Gly Tyr Gly Pro Arg Glu Lys
                                      30
     175 aaa cca gtg agt att aat cac aat atc gta gag tac aat gat ggt act
                                                                            318
     176 Lys Pro Val Ser Ile Asn His Asn Ile Val Glu Tyr Asn Asp Gly Thr
     177
              40
                                  45
     179 ttt aaa tat caa tct aga cca aaa ttt aac tca aca cct aaa tat att
                                                                            366
     180 Phe Lys Tyr Gln Ser Arg Pro Lys Phe Asn Ser Thr Pro Lys Tyr Ile
     181 55
                              60
                                                   65
     183 aaa ttc aaa cat gac tat aat att tta gaa ttt aac gat ggt aca ttc
                                                                            414
     184 Lys Phe Lys His Asp Tyr Asn Ile Leu Glu Phe Asn Asp Gly Thr Phe
                          75
                                              80
     187 gaa tat ggt gca cgt cca caa ttt aat aaa cca gca gcg aaa act gat
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     188 Glu Tyr Gly Ala Arg Pro Gln Phe Asn Lys Pro Ala Ala Lys Thr Asp
     189
                                          95
                      90
```

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Input Set : A:\012889-086.ST25.txt

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1.91	gca	act	att	aaa	aaa	gaa	caa	aaa	ttg	att	caa	gct	caa	aat	ctt	gtg	510
192	Āla	Thr	Ile	Lys	Lys	Glu	Gln	Lys	Leu	Ile	Gln	Ala	Gln	Asn	Leu	Val	
193			105					110					115				
195	aga	gaa	ttt	gaa	aaa	aca	cat	act	gtc	agt	gca	cac	aga	aaa	gca	caa	558
196	Arg	Glu	Phe	Glu	Lys	Thr	His	Thr	Val	Ser	Ala	His	Arg	Lys	Ala	Gln	
197		120					125					130				•	
199	aag	gca	gtc	aac	tta	gtt	tcg	ttt	gaa	tac	aaa	gtg	aag	aaa	atg	gtc	606
200	Lys	Ala	Val	Asn	Leu	Val	Ser	Phe	Glu	Tyr	Lys	Val	Lys	Lys	Met	Val	
201	135					140					145					150	
203	tta	caa	gag	cga	att	gat	aat	gta	tta	aaa	caa	gga	tta	gtg	aga	taa	654
204	Leu	Gln	Glu	Arg	Ile	Asp	Asn	Val	Leu	Lys	Gln	Gly	Leu	Val	Arg	*	
205					155					160					165		
207	tact	acttctgtc attattttaa gttcaaaata atttaatatt atattatttt ttattaataa														taataa	714
208	aacq	gacta	atg (ctatt	taat	g co	caggt	taat	gta	aactt	tcc	taaa	aatt	gac 1	tatat	taatcg	774
209	ttaa	agtat	ca a	atttt	aag	ga ga	agtti	aca	atg	aaa	ttt	aaa	aaa	tat	ata	tta	827
210									Met	Lys	Phe	Lys	Lys	Tyr	Ile	Leu	
211													170				
213	aca	gga	aca	tta	gca	tta	ctt	tta	tca	tca	act	ggg	ata	gca	act	ata	875
	Thr	Gly	Thr	Leu	Ala	Leu	Leu	Leu	Ser	Ser	Thr	Gly	Ιľe	Ala	Thr	Ile	
215		175					180					185					
	-			aaa	-	_	_	- ,	_	_	-					_	923
		Gly	Asn	Lys	Ala	_	Ala	Ser	Ser	Leu	_	Lys	Tyr	Leu	Thr		
	190					195					200					205	
	_	_		cat	-		_		_	_	-		_				971
	Ser	Gln	Phe	His	_	Lys	Arg	Ile	Ala		GLu	Leu	Arg	Thr		Leu	
223					210				٠.	215					220		1000
			_	aat	_		-		-	-		-	tt				1009
	Asn	гÀг	Ser	Asn	vaı	Tyr	Ата	Leu		Ата	GTÄ	Ser					
227	Z21(225 230 2210> SEQ ID NO: 10															
				H: 16													
		2> T			,,												
				ISM:	Arti	fic	ial (Seans	nce								
)> FI			ALCI	LLLC.	Laı .	Jeque	SIICC								
				INFO	RMAT	rton:	fil	nra	oteir	1							
				NCE:				, ,,,		•							
				Lys		Ile	Ala	Lvs	Ser	Leu	Leu	Thr	Ile	Ala	Ala	Ile	
240	1	-1-		1	5			-1-		10					15		
		Ile	Thr	Thr		Thr	Ile	Ala	Ser		Ala	Asp	Ala	Ser	Glu	Glv	
242	_			20					25			-		30			
243	Tyr	Gly	Pro	Arg	Glu	Lys	Lys	Pro	Val	Ser	Ile	Asn	His	Asn	Ile	Val	
244	-	-	35	_		-	-	40					45				
245	Glu	Tyr	Asn	Asp	Gly	Thr	Phe	Lys	Tyr	Gln	Ser	Arg	Pro	Lys	Phe	Asn	
246		50		-	_	•	55	_	_			60					
247	Ser	Thr	Pro	Lys	Tyr	Ile	Lys	Phe	Lys	His	Asp	Tyr	Asn	Ile	Leu	Glu	
248				•	•	70	•				75	•				80	
249	Phe	Asn	Asp	Gly	Thr	Phe	Glu	Tyr	Gly	Ala	Arg	Pro	Gln	Phe	Asn	Lys	
250					85					90					95		
251	Pro	Ala	Ala	Lys	Thr	Asp	Ala	Thr	Ile	Lys	Lys	Glu	Gln	Lys	Leu	Ile	

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Input Set : A:\012889-086.ST25.txt

Output Set: N:\CRF4\09302003\1938497A.raw

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252
                100
                                    105
253 Gln Ala Gln Asn Leu Val Arg Glu Phe Glu Lys Thr His Thr Val Ser
            115
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                                                     125
255 Ala His Arg Lys Ala Gln Lys Ala Val Asn Leu Val Ser Phe Glu Tyr
                            135
        130
                                                140
257 Lys Val Lys Lys Met Val Leu Gln Glu Arg Ile Asp Asn Val Leu Lys
                        150
                                            155
259 Gln Gly Leu Val Arg
263 <210> SEQ ID NO: 11
264 <211> LENGTH: 68
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: fib protein
271 <400> SEQUENCE: 11
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274 Ser Ser Thr Gly Ile Ala Thr Ile Glu Gly Asn Lys Ala Asp Ala Ser
275
                20
                                    25
276 Ser Leu Asp Lys Tyr Leu Thr Glu Ser Gln Phe His Asp Lys Arg Ile
                                40
278 Ala Glu Glu Leu Arg Thr Leu Leu Asn Lys Ser Asn Val Tyr Ala Leu
                            55
279
        50
280 Ala 'Ala Gly Ser
281 65
284 <210> SEQ ID NO: 12
285 <211> LENGTH: 781
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: fib gene from strain FDA 486
292 <400> SEQUENCE: 12
293 atagataact atattttgtc tatattataa agtgtttata gttaattaat aattagttaa 60
294 tttcaaaagt tgtataaata ggataactta ataaatgtaa gataataatt tggaggataa 120
295 ttaacatgaa aaataaattg ataqcaaaat ctttattaac aataqcqqca attggtatta 180
296 ctacaactac aattgcgtca acagcagatg cgagcgaagg atacggtcca agagaaaaga 240
297 aaccagtgag tattaatcac aatatcgtag agtacaatga tggtactttt aaatatcaat 300
298 ctagaccaaa atttaactca acacctaaat atattaaatt caaacatgac tataatattt 360
299 tagaatttaa cgatggtaca ttcgaatatg gtgcacgtcc acaatttaat aaaccagcag 420
300 cgaaaactga tgcaactatt aaaaaagaac aaaaattgat tcaagctcaa aatcttgtga 480
301 gagaatttga aaaaacacat actgtcagtg cacacagaaa agcacaaaag gcagtcaact 540
302 tagtttcgtt tgaatacaaa gtgaagaaaa tggtcttaca agagcgaatt gataatgtat 600
303 taaaacaagg attagtgaga taatacttct gtcattattt taagttcaaa ataatttaat 660
304 attatattat tttttattaa taaaacgact atgctattta atgccaggtt aatgtaactt 720
305 tootaaaatt gactatataa togttaagta toaattttaa ggagagttta caatgaaatt 780
306 t
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308 <210> SEQ ID NO: 13
309 <211> LENGTH: 785
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VERIFICATION SUMMARY

DATE: 09/30/2003 TIME: 11:17:55

PATENT APPLICATION: US/09/938,497A

Input Set : A:\012889-086.ST25.txt

Output Set: N:\CRF4\09302003\I938497A.raw

L:154 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:157 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9